

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A flexible monolithic electronic device, comprising:

a substrate layer of electrically insulating material having a first side and an opposed second side, the substrate layer having at least one aperture extending from the first to the second side;

a base layer of semiconductor material disposed on and in contact with the first side of the substrate layer for forming a first electrode;

an active layer of semiconductor material disposed on and in contact with the second side of the substrate layer for forming a second electrode, the active layer including at least one switching element; and

a flexible coating formed on the first side of the substrate layer for acting as a protective cover for the at least one switching element,

wherein the at least one aperture extends from the base layer to the active layer and is filled with conductive material.

2. (Canceled)

3. (Previously presented) The flexible electronic device as claimed in Claim 1, wherein the electronic device comprises a display pixel.

4. (Previously presented) The flexible electronic device as claimed in claim 3, wherein the base layer is electrically conductive and is present between the active layer and the flexible coating, and the first electrode is a pixel electrode.

5. (Previously presented) The flexible electronic device as claimed in claim 4, wherein the display pixel comprises a capacitor having the first and second electrodes and a dielectric, the first electrode is provided in the electrically conductive layer and the second electrode is provided in the active layer, the substrate layer acting as a dielectric.

6. (Previously presented) The flexible electronic device as claimed in claim 5, wherein the substrate layer further comprises a high-K area which acts as the dielectric of the capacitor.

7. (Previously presented) The flexible electronic device as claimed in claim 3, wherein the switching element is part of an array of switching elements provided on the active layer, the array is driven by a driving circuit comprising an integrated circuit of circuit elements provided in and on the active layer.

8. (Canceled)

9. (Currently amended) An apparatus comprising: a flexible device according to Claim 1

a substrate layer of electrically insulating material having a first side and an opposed second side, the substrate layer having at least one aperture extending from the first to the second side;

a base layer of semiconductor material disposed on and in contact with the first side of the substrate layer for forming a first electrode;

an active layer of semiconductor material disposed on and in contact with the second side of the substrate layer for forming a second electrode, the active layer including at least one switching element; and

a flexible coating formed on the first side of the substrate layer for acting as a protective cover for the at least one switching element.

wherein the at least one aperture extends from the base layer to the active layer and is filled with conductive material, and

wherein the substrate layer, base layer, active layer and flexible coating are flexible.

10. (Canceled)

11. (Currently amended) A rollable-cartridge comprising: ~~the flexible electron device~~
according to Claim 3

a display pixel including:

a substrate layer of electrically insulating material having a first side and an opposed second side, the substrate layer having at least one aperture extending from the first to the second side;

a base layer of semiconductor material disposed on and in contact with the first side of the substrate layer for forming a first electrode;

an active layer of semiconductor material disposed on and in contact with the second side of the substrate layer for forming a second electrode, the active layer including at least one switching element; and

a flexible coating formed on the first side of the substrate layer for acting as a protective cover for the at least one switching element,

wherein the at least one aperture extends from the base layer to the active layer and is filled with conductive material,

wherein the substrate layer, base layer, active layer and flexible coating are rolled within the cartridge.

12-13. (Canceled)